

CLAIMS

1. A reception apparatus for receiving broadcast signals transmitted with multiple multiplexed services, wherein

5 the broadcast signal contains a first stream for burst-transmitting packet sets carrying content for each service, and a second stream for continuously transmitting packets carrying content for each service at a speed determined by the transmission rate required for the service;

10 the reception apparatus comprises an operating section used by a user for specific operations, a reception section that receives a broadcast signal, and a playback section that decodes and reproduces the received data;

15 a zapping mode is set as the operating mode until burst data for the first stream related to a selected service is received when one service is selected by the operating section, and operation is changed from the zapping mode to an intermittent reception mode when transmission of burst data for the first stream related to the selected service begins;

20 in the zapping mode, the reception section receives data for the selected service in the second stream, and the playback section reproduces data from the received second stream; and

25 in the intermittent reception mode, the reception section receives data for the selected service in the first stream and the playback section reproduces data from the received first stream.

2. The reception apparatus according to claim 1, wherein
30 the second stream contains data related to the same content as the first stream and having less data volume than data of the first stream.

3. The reception apparatus according to claim 1, further
35 comprising a buffer that temporarily stores received data of the first stream for reproduction,

wherein when changing from the intermittent reception mode to the zapping mode, the buffer stores burst data for the service being received in the intermittent reception mode just before the mode transition until the user selects a different service in the zapping mode.

4. The reception apparatus according to claim 1, further comprising a buffer that temporarily stores received data of the first stream for reproduction;

wherein during the zapping mode, the reception section receives data for all services in the first stream regardless of the selected service, and constantly updates the buffer with the received data of the first stream.

5. The reception apparatus according to claim 1, further comprising a buffer that temporarily stores received data of the first stream for reproduction;

wherein control of the buffer differs according to the type of button used to change the service in the zapping mode.

6. The reception apparatus according to claim 1, wherein when the user executes a specific operation on the operating section indicating selection of a particular service, reproduction of the data of the first stream begins in the intermittent reception mode.

7. The reception apparatus according to in claim 1, further comprising a demodulation section that demodulates the reception signal, wherein

when information indicating duration of the burst data for each service in the first stream is contained in the reception signal, power supply to the demodulation section is terminated after the duration passes after reception of the burst data for the selected service starts.

8. The reception apparatus according to claim 1, wherein when the burst data comprises multiple sections and each section contains interval time information from start of data reception for the section to start of reception of the next burst data for the same service, time from when one burst data is received until the next burst data for the same service is received is corrected based on the interval time information contained in each section.

9. The reception apparatus according to claim 1, wherein difference between reproduction time information of the first stream and reproduction time information of the second stream for the same service is determined, and the reproduction time of the first stream is corrected based on the difference.

10. The reception apparatus according to claim 1, wherein the first stream contains audio data and video data, and the second stream contains at least either of still image data and audio data.

11. The reception apparatus according to claim 1, wherein the second stream is carried in the burst data of the first stream.

12. The reception apparatus according to claim 1, further comprising a buffer that temporarily stores received data of the second stream for reproduction; and

while burst data for the selected service is not being received, zapping data for another service is received and regularly stored to the buffer, and data for another service stored in the buffer is read and reproduced when another service is selected in the zapping mode.

13. The reception apparatus according to claim 1, wherein information indicating the relationship between the first stream and second stream is contained in the PMT (Program Map Table) of

the PSI (Program Specific Information) carried by the first stream.

14. A reception method for receiving broadcast signals transmitted with multiple multiplexed services, wherein

the broadcast signal contains a first stream for burst-transmitting packet sets carrying content for each service, and a second stream for continuously transmitting packets carrying content for each service at a speed determined by the transmission rate required for the service;

the reception method comprising:

setting a zapping mode as the operating mode until burst data for the first stream related to a selected service is received, when one service is selected,

changing from the zapping mode to an intermittent reception mode when transmission of burst data for the first stream related to the selected service begins;

in the zapping mode, receiving data for the selected service in the second stream, and reproducing data from the received second stream; and

in the intermittent reception mode, receiving data for the selected service in the first stream and reproducing data from the received first stream .

15. The reception method according to claim 14, wherein the second stream contains data related to the same content as the first stream and having less data volume than data of the first stream.